Title (en)

METHOD AND MODULATOR FOR MODULATING SEQUENCE OF BITS IN WIRELESS COMMUNICATIONS NETWORK

Title (de)

VERFAHREN UND MODULATOR ZUR BITFOLGEMODULATION IN DRAHTLOSEN KOMMUNIKATIONSNETZEN

Title (fr)

PROCEDE ET MODULATEUR POUR MODULER UNE SEQUENCE DE BITS DANS UN RESEAU DE COMMUNICATION SANS FIL

Publication

EP 1787403 B1 20110126 (EN)

Application

EP 06714054 A 20060214

Priority

• JP 2006302913 W 20060214
• US 7416805 A 20050307

Abstract (en)

[origin: US2006083294A1] A system incorporates TH-IR and TR-IR transceivers in the same wireless network. A transmitter modulates a sequence of bits in a wireless communications network by generating a reference waveform and a data waveform of a waveform pair for each current bit. The phase of the reference waveform depends on a previous modulated bit, and a difference in phase between the reference waveform and the data waveform pair depend on the current bit. A symbol period for the current bit is partitioned into multiple time intervals, and the reference waveform and the data waveform are encoded in a selected one of the time intervals that depends on the current bit.

IPC 8 full level

H04B 1/69 (2011.01)

CPC (source: EP US)

H04B 1/7176 (2013.01 - EP US); **H04L 27/18** (2013.01 - EP US); **H04L 27/2071** (2013.01 - EP US); **H04L 27/2331** (2013.01 - EP US); H04B 1/71635 (2013.01 - EP US); H04B 1/719 (2013.01 - EP US); H04B 2001/6908 (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

US 2006083294 A1 20060420; **US 7391802 B2 20080624**; CN 101040455 A 20070919; CN 101040455 B 20111214; DE 602006019811 D1 20110310; EP 1787403 A1 20070523; EP 1787403 B1 20110126; JP 2008532333 A 20080814; JP 4885854 B2 20120229; WO 2006095558 A1 20060914

DOCDB simple family (application)

US 7416805 A 20050307; CN 200680000982 A 20060214; DE 602006019811 T 20060214; EP 06714054 A 20060214; JP 2006302913 W 20060214; JP 2007518990 A 20060214